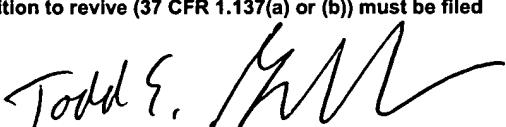


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 102667-202
INTERNATIONAL APPLICATION NO. PCT / EPO3 / 04546		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 107511708
INTERNATIONAL FILING DATE 25 APRIL 2003		
PRIORITY DATE CLAIMED 26 APRIL 2002		
TITLE OF INVENTION HEIGHT-RELATED GENE		
APPLICANT(S) FOR DO/EO/US GUDRUN A. RAPPOLD and STEFAN KIRSCH		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). </p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). </p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. </p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). Unsigned</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
<p>Items 11 to 20 below concern document(s) or information included:</p> <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: See Attached Sheet</p>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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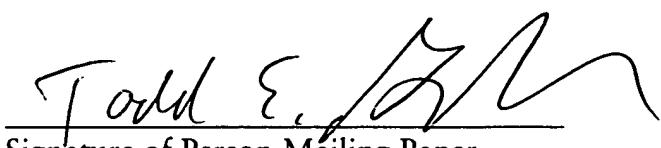
U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/511708	INTERNATIONAL APPLICATION NO. PCT / EP03 / 04546	ATTORNEY'S DOCKET NUMBER 102669-202		
21. <input checked="" type="checkbox"/> The following fees are submitted:		CALCULATIONS PTO USE ONLY		
BASIC NATIONAL FEE (CFR 1.492(a)(1)–(5)):				
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO.....		\$1110.00		
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO		\$950.00		
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO		\$790.00		
International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)–(4)		\$750.00		
International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)–(4)		\$100.00		
ENTER APPROPRIATE BASIC FEE AMOUNT =		\$ 950.00		
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$		
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$
Total claims	12 - 20 =	0	X \$18.00	\$
Independent claims	5 - 3 =	2	X \$88.00	\$ 176.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$300.00	\$
TOTAL OF ABOVE CALCULATIONS =		\$ 1,126.00		
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.		\$		
SUBTOTAL =		\$ 1,126.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$		
TOTAL NATIONAL FEE =		\$1,126.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		\$		
TOTAL FEES ENCLOSED =		\$ 1,126.00		
		Amount to be refunded:	\$	
		Amount to be charged:	\$	
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>23-1665</u> in the amount of \$ <u>\$1,126.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>23-1665</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.				
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.				
SEND ALL CORRESPONDENCE TO:				
Docket Coordinator Intellectual Property Law Section Wiggin and Dana LLP One Century Tower New Haven, CT 06508-1832 Telephone: (203) 498-4400		Customer No: 27267	SIGNATURE  Todd E. Garabedian, Ph.D. NAME 39197 REGISTRATION NUMBER	

10/511708
DT01 Rec'd PCT/PTC 15 OCT 2004

CERTIFICATION UNDER 37 CFR §1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date, October 15, 2004, in an envelope marked "Express Mail Post Office to Addressee" Mailing Label No. EL 662088627 US, addressed to Commissioner for Patents, P. O. Box 1450, Alexandria, Virginia 22313-1450.

Todd E. Garabedian, Ph.D.
Printed Name of Person Mailing Paper


Signature of Person Mailing Paper

- Transmittal Letter - Form PTO-1390 (2 Copies)
- Preliminary Amendment
- Combined Declaration and Power of Attorney for Joint Inventors (Unsigned)
- Published PCT Application WO 03/091381 A2
- Request Form PCT/RO/101
- Demand Form PCT/IPEA/401
- Notification of Transmittal of International Preliminary Examination Report Form PCT/IPEA/416
- Notification of the Recording of a Change Form PCT/1B/306
- Sequence Listing (43 Pages)
- Notification of Transmittal of International Search Report or Declaration Form PCT/ISA/220
- International Search Report Form PCT/ISA/210
- Information Disclosure Statement
- Information Disclosure Letter
- Form PTO-1449
- Copies of Cited Art (9 Pieces)
- Return Receipt Postcard

10/511708

DT01 Rec'd PCT/PTC 15 OCT 2004

Transmittal Letter to United States Designated/Elected Office
Answer to Question #20 on Form PTO-1390 (Rev. 10-2004)

20. Other items or Information:

1. Published PCT Application WO 03/091381 A2
2. Request Form PCT/RO/101
3. Demand Form PCT/IPEA/401
4. Notification of Transmittal of International Preliminary Examination Report Form PCT/IPEA/416
5. Notification of the Recording of a Change Form PCT/1B/306
6. Sequence Listing (43 Pages)
7. Notification of Transmittal of International Search Report or Declaration Form PCT/ISA/220
8. International Search Report Form PCT/ISA/210
9. Copies of Cited Art (9 Pieces)
10. Express Mail Certification
11. Return Receipt Postcard

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